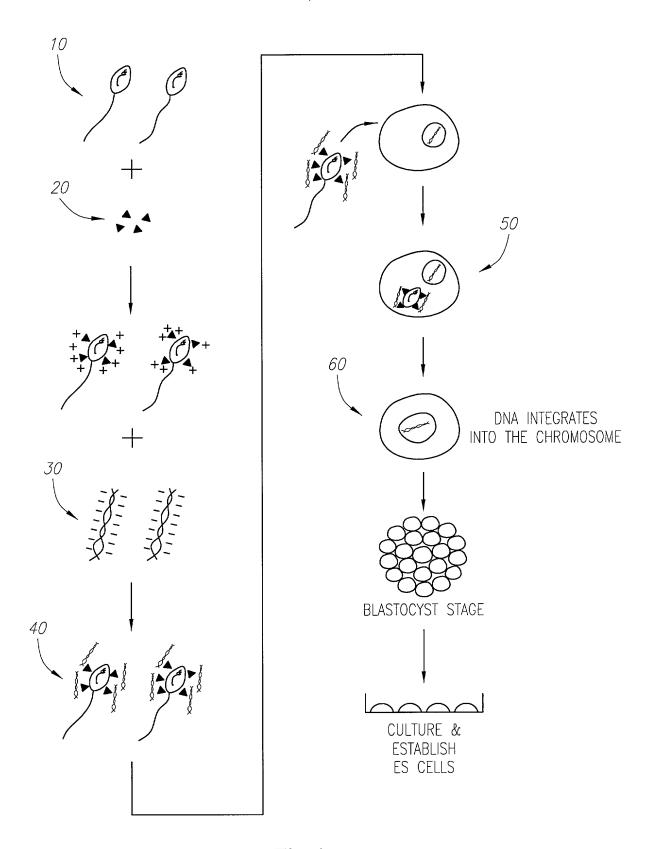
DKT.: 258/193

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The first first total control first in

Fig.1

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FLOW CYTOMETRY ANALYSES FOR mAb C BINDING TO HUMAN SPERM CELL

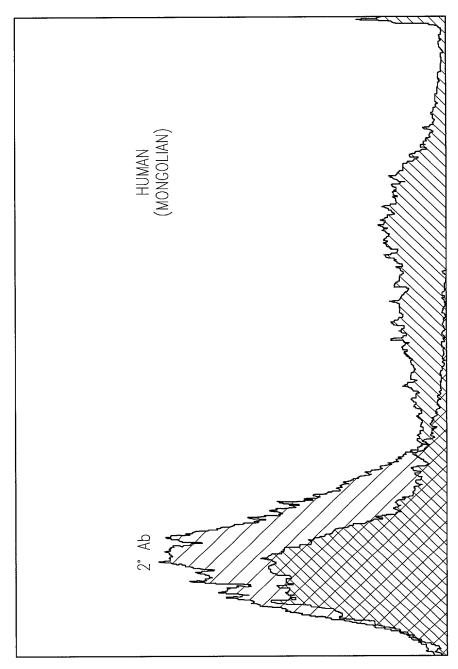


Fig. 2

METHOD AND SYSTEM FOR INTRODUCING A GENE INTO A HUMAN STEM CELL INV.: K. WANG DKT.: 258/193

03/12

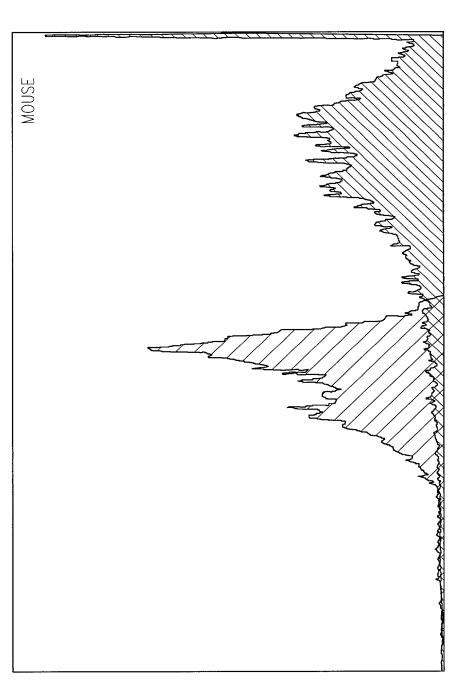


Fig. 3

INV.: K. WANG DKT.: 258/193

04/12

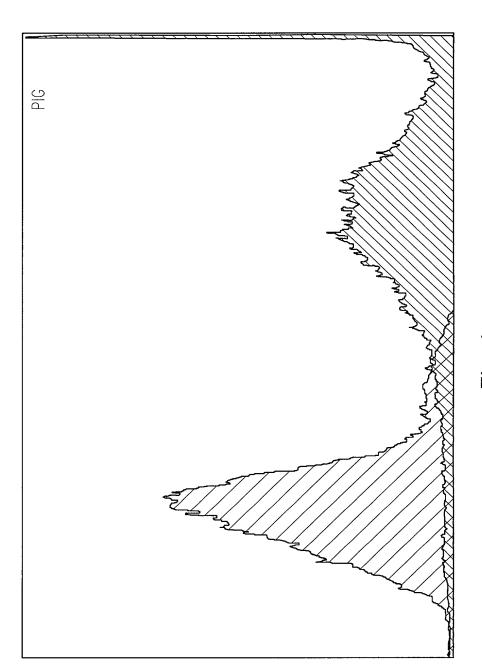
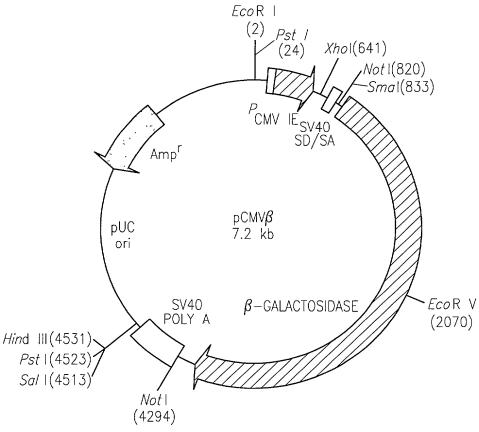


Fig. 4

METHOD AND SYSTEM FOR INTRODUCING A GENE INTO A HUMAN STEM CELL INV.: K. WANG

DKT.: 258/193





RESTRICTION MAP OF PCMVB. UNIQUE RESTRICTION SITES ARE BOLD.

DESCRIPTION:

pCMVeta is a mammalian reporter vector designed to expression eta-galactosidase in mammalian cells from the human cytomegalovirus immediate early gene promoter (1). pcmveta contains an intron (splice donor/splice acceptor;2) and polyadenylation signal from SV40, and the full length $\emph{e.coli}$ β -galactosidase gene with eukaryotic translation initiation signals (3). pcmv β expresses high levels of β -galactosidase and can be used as a reference (control) plasmid when transfecting other reporter gene constructs and can be used to optimize transfection protocols by employing standard assays or stains to assay β -galactosidase activity. Alternatively, the β -galactosidase gene can be excised using the Not1 sites at each end to allow other genes to be inserted into the pcmv β vector backbone for expression in mammalian cells or to insert the β -galactosidase fragment into another expression vector.

Fig. 5

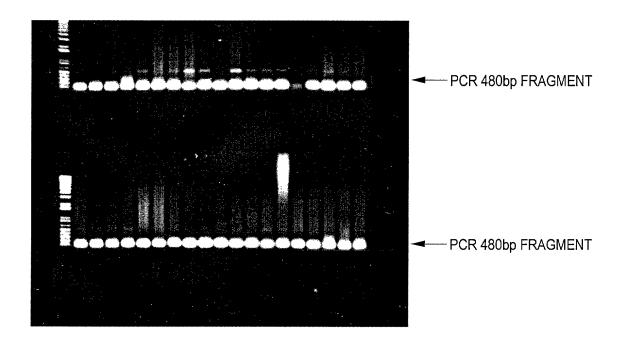


Fig. 6

07/12

HBsAG SOUTHERN BLOT 3 DAY EXPOSURE

1 2 3 4 5 6 7 8 9 10 11 12 13 C1 C2 C3 C4 C5 C6 C7

3300

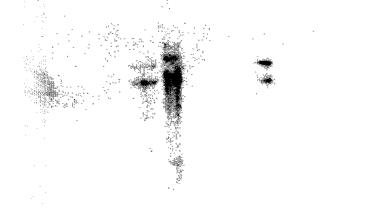
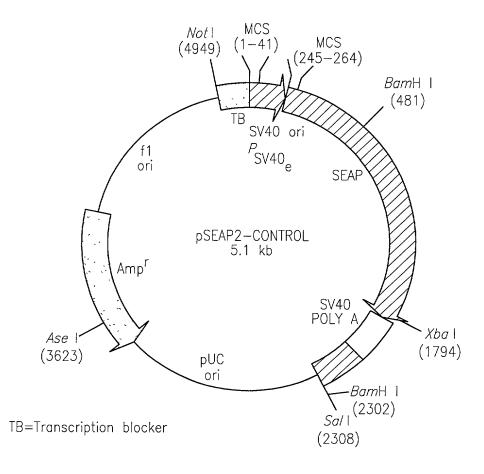


Fig. 7

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METHOD AND SYSTEM FOR INTRODUCING A GENE INTO A HUMAN STEM CELL INV.: K. WANG DKT.: 258/193

08/12



RESTRICTION MAP AND MULTIPLE CLONING SITE (MCS) OF pSEAP2—CONTROL UNIQUE RESTRICTION SITES ARE BOLD.

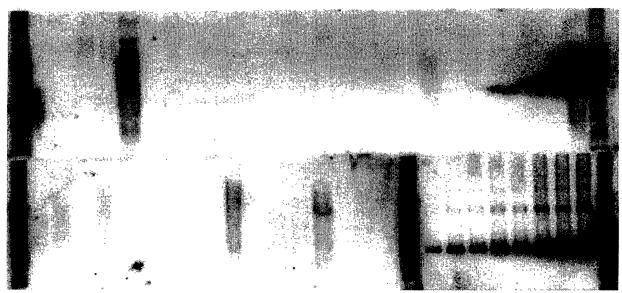
DESCRIPTION:

pSEAP2—CONTROL IS A POSITIVE CONTROL VECTOR EXPRESSING SECRETED ALKALINE PHOSPHATE (SEAP)
UNDER THE CONTROL OF THE SV40 EARLY PROMOTER AND THE SV40 ENHANCER. THE SEAP CODING SEQUENCE
IS FOLLOWED BY THE SV40 LATE POLYADELYNATION SIGNAL TO ENSURE PROPER, EFFECIENT PROCESSING OF THE
SEAP TRANSCRIPT IN EUKARYOTIC CELLS. A SYNTHETIC TRANSCRIPTION BLOCKER (TB), COMPOSED OF ADJACENT
POLYADENYLATION AND TRANSCRIPTION PAUSE SITES, LOCATED UPSTREAM OF THE MCS REDUCES BACKGROUND
TRANSCRIPTION (1). THE VECTOR BACKBONE ALSO CONTAINS AN F1 ORIGIN FOR SINGLE—STRANDED DNA
PRODUCTION, A PUC ORIGIN OF REPLICATION, AND AN AMPICILLIN RESISTANCE GENE FOR PROPAGATION AND
SELECTION IN E. COLI. THE SEAP2 VECTORS INCORPORATE A NUMBER OF FEATURES THAT IMPROVE THE SENSITIVITY
OF SEAP BY INCREASING THE EFFICIENCY OF SEAP EXPRESSION OR THAT ENHANCE THE UTILITY OF THE VECTORS.
THESE ICLUDE: AN IMPROVED KOZAK CONSENSUS TRANSLATION INITIATION SITE (2); THE REMOVAL OF THE SV40
SMALL—T INTRON, WHICH CAN CAUSE CRYPTIC SPLICING AND REDUCED EXPRESSION IN SOME GENES AND/OR
CELL TYPES (3,4); SWITCHING FROM THE EARLY TO LATE POLYADENYLATION SIGNAL OF SV40, WHICH TYPICALLY
CAUSES A FIVE—FOLD INCREASE IN MRNA LEVELS (5); AN EXPANDED MULTIPLE CLONING SITE (MCS); COMPACT
PLASMID SIZE; AND REMOVAL OF EXTRANEOUS SEQUENCES FROM THE 3' UNTRANSLATED REGION OF THE SEAP MRNA

Fig. 8

Pig Tail DNA Southern Blot

M 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 M



M 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 M 1 2 2 4 4 8 16 32 M # of Copies of Control Plasmid

Fig. 9

METHOD AND SYSTEM FOR INTRODUCING A GENE INTO A HUMAN STEM CELL INV.: K. WANG DKT.: 258/193

10/12

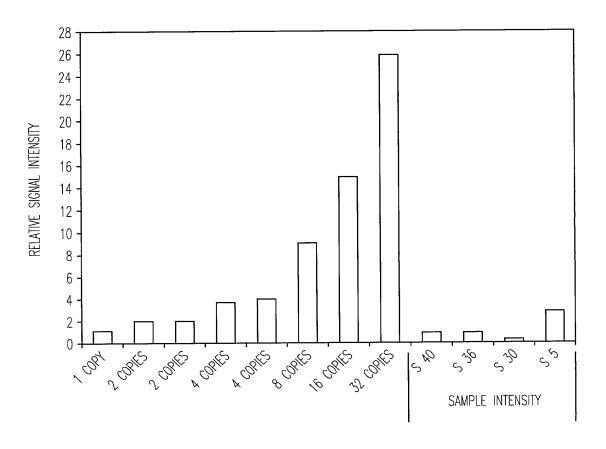


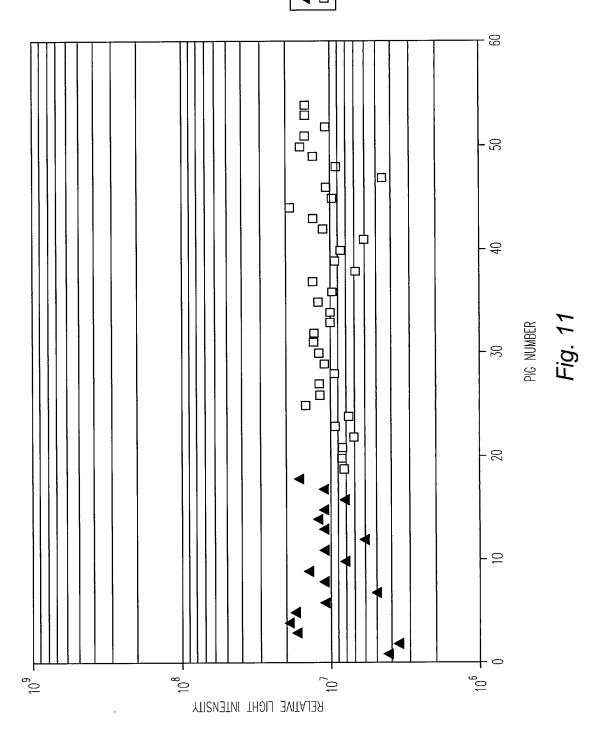
Fig. 10

DKT.: 258/193

11/12

► NONTRANSGENIC

□ pSEAP-2 TRANSGENIC



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► NONTRANSGENIC

□ pSEAP-2 TRANSGENIC

